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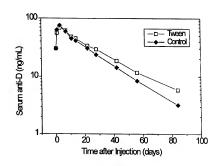
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

51) International Patent Classification ⁶ : A61K 39/395	A3	(11) International Publication Number: WO 98/44948 (43) International Publication Date: 15 October 1998 (15.10.98
22) International Application Number: PCT/C/ 22) International Filing Date: 7 April 1998 30) Priority Data: 60/041/921 7 April 1997 (07.04.97) 71) Applicant (for all designated States except US): C CORPORATION [CA/CA]: 104 Chancellor Road, Winnipeg, Manitoba RST 2PA (CA). 72) Inventors; and 75] Inventors and 75] Inventors (for US only): PRICE, I CA/CA/CA]: 505 Kingsion Creseant, Winnipeg, RA/CA]: 505 Kingsion Creseant, Winnipeg, RA/CA]: 605 Kingsion Creseant, Winnipeg, RA/CA]: 607 (CA): 607	ANGEN Methese Manlto [CA/CA Winnipe	BY, C.A., C.H., C.U., C.Z., D.E., D.K., E.E., R.F., I. B., G. G. G.H., G.M., G.W., H.U., D.H., J.E., P.K., E.G., P.K., R.Y., S.K., L.C., L.K., L.R., L.S., L.T., L.U., L.V., M.D., M.G., M.K., M.M.X., N.O., N.Z., P.J., P.T., O.R., U.S., D.S., S.G., S.S.,

(54) Title: INTRAVENOUS IMMUNE GLOBULIN FORMULATION CONTAINING A NON-IONIC SURFACE ACTIVE AGENT
WITH IMPROVED PHARMACOKINETIC PROPERTIES

(57) Abstract

Addition of a non-ionic surface active agent to an immune globulin formulation extends the serum half-life of relatively pure and non-aggregated immune globulin suitable for intravenous injectionor infusion. The non-ionic surface active agent may be a sorbitan ester or a polyoxyethylene sorbitan ester of a fatty acid. Formulations of the present invention is therapeutically advantageous over conventional formulations in that an extended serum half-life of the immune globulin improves its therapeutic effectiveness, reduces the frequency of drug administration and/or lowers the therapeutic effective dosage required and cost of treatment.



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onal Application No PCT/CA 98/00325

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 A61K39/395

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 6-A61K-C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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А	WO 95 01155 A (UNILEVER PLC) 12 January 1995 see the whole document	1-21
А	EP 0 764 447 A (BAYER CORPORATION PITTSBURGH) 26 March 1997 see the whole document	1-21
А	CA 2 151 409 A (PURISSIMUS) 6 November 1996 see the whole document	1-21
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X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
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Date of the actual completion of the international search 24 November 1998	Date of mailing of the international search report $08/12/1998$
Name and mailing acdress of the ISA European Patent Office, P B. 5818 Patentiaan 2 NL - 2280 HV Pilywayk Tol (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-2016	Authorized officer Moreau, J

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.		
A	KALEVI J.A. ET AL.: "Modulation of antibody kinetics by the cell membrane active agent tween 80 in vivo" ANTICANCER RESEARCH, vol. 16, no. 6b, 1996, pages 3542-3550, XP002085447 see the whole document	1-21		
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rnational application No.

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Box	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inter	national Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	Clauma Nos Decause hey relate to subject manner not required to be searched by this Authority, namely: Remark: Although claims 18-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
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Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

information on patent family members

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